

sigma
CLERMONT



An Engineering Graduate School in the heart of France

Direction des Relations Internationales

A unique alliance between Mechanics and Chemistry

ENSCCF – National Graduate School of Chemistry

4th oldest chemistry school in France, founded in 1908 with an excellent standard of education and research

ENSCCF
CHIMIE CLERMONT
École Nationale Supérieure de
Chimie de Clermont-Ferrand



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CLERMONT

01.01.2016



IFMA – French Institute of Advanced Mechanics

Founded in 1991, a school of advanced mechanical engineering with close links to local and national industry



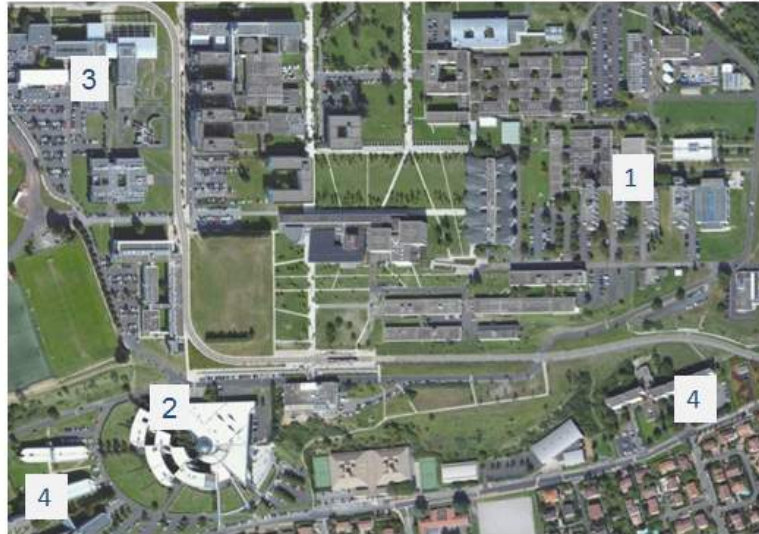
IFMA
INSTITUT FRANÇAIS
DE MÉCANIQUE AVANCÉE





**Welcome to SIGMA
Clermont!**

Our Location



- 1 Chemistry Departments & Laboratories
- 2 Mechanical Engineering Departments & Laboratories
- 3 Chemical Engineering Department & Laboratories
- 4 Student residences



SIGMA Clermont - Facts and Figures

- ◆ **Public Graduate school** for Engineering under the authority of the French Ministry of Higher Education and research – Founded in 1908 (Chemistry)
- ◆ On 01.01.2021 part of the new **Clermont Institute of Technology (CIT)**
- ◆ **1100 students** (380 graduates per year) at SIGMA – 2200 students at CIT
- ◆ **14% International** students from over 30 countries
- ◆ Different study programs in the fields of **Engineering and Chemistry**
- ◆ **660.000 Euros grant budget** for outgoing mobility
- ◆ Located in **Clermont-Ferrand** (Auvergne-Rhône-Alpes Region)
- ◆ Facilities and Student housing located on scientific campus
- ◆ 15+ **research** laboratories
- ◆ Member of **University Clermont Auvergne** (151-200th – Times Young University Ranking 2020, 15th Nationwide in NTU Ranking, 18th Nationwide ARWU)



シグマ・クレルモン大学



Our network



Institut Mines-Telecom

- 25 schools in France and worldwide
- 13200 students
- 4600 employees
- 125 M€ funding per year for research
- 75 patents per year



Gay-Lussac Federation

- 20 schools in France specialised in Chemistry
- 6000 students
- 120 laboratories
- 300 PhD theses per year



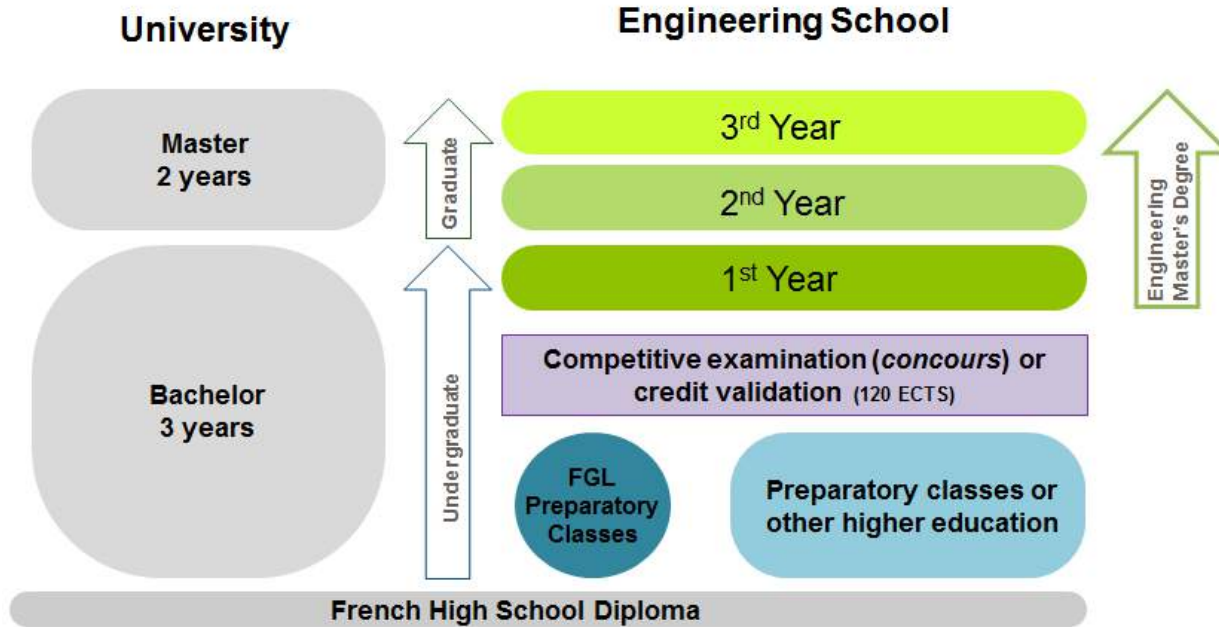
Clermont Auvergne University & Associates

- Regional University network
- 1 university and 2 engineering schools
- 38,000 students

Studying at SIGMA



The French Higher Education System



Study programmes

- ◆ SIGMA Clermont offers courses at European **graduate level (M.Sc)** in 8 different areas

- ◆ **Machines, Mechanisms and Systems**
- ◆ **Industrial and Logistics Systems**
- ◆ **Materials and Structures**
- ◆ **High Performance Materials**
- ◆ **Fine and Industrial Organic Chemistry**
- ◆ **Chemical and Process Engineering**
- ◆ **English-language Master's program in Robotics**
- ◆ **Data Science**

- ◆ Outstanding Additional classes in Management, Economics and Languages (**including Japanese**) are an integral part of our programs.



- ◆ **Clermont Institute of Technology (CIT)** programs include:

- ◆ **Civil Engineering**
- ◆ **Bio-Engineering**
- ◆ **Materials and Structures**
- ◆ **Computer Science**
- ◆ **Physical Engineering**

- ◆ **We welcome international students for exchange studies (sandwich-programs), laboratory work, internships and dual-degrees.**

Learning methods

- ◆ **Lectures**
 - ◆ Learning main theoretical knowledge
- ◆ **Tutorials 'TD'**
 - ◆ Understand the theoretical concepts in dedicated guided exercises
- ◆ **Practical work 'TP'**
 - ◆ Add practical experience to theoretical knowledge using specialized equipment
- ◆ **Projects**
 - ◆ Gather knowledge from different courses and gain insights in order to achieve a defined project; team work



Technology Transfer Center

◆ Technology transfer

- ◆ Accompanying companies in their technological and organisational development
- ◆ Development of research activities
- ◆ Design of innovative machines and products
- ◆ A 3200 m² technology center, the school's integrated factory
- ◆ It comprises various high speed multi-axis machine tools, flexible sheet metal cell, milling-turning machine tool, PKM parallel kinematic tool, various industrial robots for machining and finishing, NMR, FTIR, XRD, X-ray fluorescence, LC-MS, GC-MS, DSC. SIGMA Clermont is also one of the best equipped schools in France for Chemical Engineering, and the only one having a predictive-control instrumented chemical reactor.



SIGMA Clermont - International

- ◆ Close partnerships with over 130 top universities as well as companies worldwide



- ◆ Active role in national and international programs and networks



Erasmus+



SIGMA Clermont - International

- ◆ 400 students abroad every academic year
- ◆ 120 international students registered
- ◆ Dual degree studies
- ◆ Welcome Label



◆ Cooperation with Japan

- ◆ Partners : Kyushu University (九州大学), SIT (芝浦工業大学), JAIST (北陸先端科学技術大学院大学)
- ◆ Partners from Clermont Institute of Technology include Kumamoto University (熊本大学) and Nagoya University (名古屋大学)
- ◆ Exchange of students for studies
- ◆ SIT & Mitsubishi FUSO Winterschool (PBL program)



The SIGMA Clermont Foundation

- ◆ The **SIGMA Clermont Foundation** was at the origin of the project to establish an engineering school in Clermont-Ferrand
- ◆ It seeks to ...
 - ◆ favour the personal development of students
 - ◆ maintain close contacts with enterprises
 - ◆ take into account the needs of industry in the school's academic programme
 - ◆ participate in the choice of orientations in teaching, research and recruitment
 - ◆ develop a privileged relational network between enterprises and SIGMA Clermont engineers

Fondation
sigma



The SIGMA Clermont Foundation

◆ 60 Foundation members





**STUDENT LIFE &
CLERMONT-FERRAND**

Student life at SIGMA Clermont

- ◆ A large choice of different kinds of sports, cultural and scientific clubs and associations



The City of Clermont-Ferrand



+
**clermont
auvergne
métropole**



The City of Clermont-Ferrand

- ◆ 290.000 Inhabitants
- ◆ 35.000 Students
- ◆ Ranked *best city for studying for several years*¹
- ◆ Ranked among one of the *cheapest cities for students* in France²
- ◆ **Approximate costs of living:**
 - ◆ National student fee 91€ (per year, mandatory for all students)
 - ◆ Housing: 250€ (750€ in Paris)
 - ◆ Food: 100€
 - ◆ Transportation: 20€
 - ◆ Student activities: 80€
 - ◆ Health Insurance: free of charge for all registered students



Check out our website
www.sigma-clermont.fr





Thanks!

Any questions?

You can find us at international@sigma-clermont.fr

Focus on languages

The secret to learning languages =
there is no secret :)

Everybody has it's own method and system :

- 500 most used words
- Imitation – Listening EVERYWHERE !!
- Grammar
- Watching VO even when you don't understand it
- Reading your favourite book in another language
- ...

Never be afraid
of mistakes ...
just speak :)

*Babysteps – little
victories are
important*

Language learning is fun, it needs to
stay fun!

Patience!!!

